L	Hits	Search Text	DB	Time stamp
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Search History 6/11/03 4:03:52 PM

Page 1

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EIC2100 COMMERCIAL DATABASE SEARCH REQUEST

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Art Unit: 3627 Phone Number 703/308-6391 Serial Number:	9/839,245	
Bldg & Room #: PK5 7B21 Results Format Preferred: PA If more than one search is submitted, please prioritize search		
Provide the PALM Bib page or the following: Title of Invention: see attached bib sheet		
Inventors (provide full names): see attack 5-6 See		
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See particularly claims $\frac{1}{2} \Rightarrow \frac{1}{2}$ The claimed or apparent novelty of the invention is:	<u>3</u>	
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12/5/5 (Item 5 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online

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01601938 ORDER NO: AAD98-04995

THE EFFECT OF UNITED STATES DAIRY DEREGULATION ON FARM LEVEL MARKETS: A LABORATORY EXPERIMENT

Author: DOYON, MAURICE ALBERT

Degree: PH.D. Year: 1997

Corporate Source/Institution: CORNELL UNIVERSITY (0058)

Source: VOLUME 58/08-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3238. 100 PAGES

Current dairy regulations in the U.S. are the result of over 80 years of regulatory activities. Through the 1920s and 1930s the U.S. government passed various acts designed to increase the share of market surplus captured by sellers, which at the time was judged insufficient. Lately, budget constraints and commitments to freer trade agreement have let the government and some dairy sector leaders contemplate different levels of dairy deregulation. The elimination of the Federal Milk Marketing Orders (FMMOs), a cornerstone of U.S. dairy regulation, has emerged as a possibility.

The thought of eliminating the FMMOs was particularly disturbing to milk producers because of uncertainty regarding what might happen to the farm price, the volume of raw milk supplied, market stability and price efficiency, and to the distribution of market surplus between dairy farmers and dairy processing plants.

These particular questions have not been extensively studied before due to data availability problems. Data from the era prior to the establishment of FMMOs would be difficult to obtain, and probably not meaningful because FMMOs have been around since the late-1930s.

Experimental economics is used to **simulate** U.S. dairy market conditions and the effect of the elimination of FMMOs. The experimental task is a simple 2 X 2 matrix laboratory game. The treatments are oligopsony and regulation. Perishability is represented by an advance **production** decision with no carry-over and is kept constant across the experiments. Experimental sessions comprised 12 periods and a practice period. **Sellers** made **production** decisions and received a pool **price**, while **buyers** made a **price** (bid) and quantity decision. The allocation of units **produced** is made by the monitor on a highest bid basis. The game is **computer** assisted.

Experimental results indicate that, in the absence of regulation, buyers are successful in reducing market price below the perfectly competitive price and in capturing a larger share of market surplus than a competitive solution predicts. Regulation reduced the market power of buyers and the price fluctuation of raw milk, in an oligopsonistic market, and had no significant impact on the overall price efficiency of the market.

12/5/24 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6704143 INSPEC Abstract Number: C2000-10-7180-008

Title: An agent based model of supply chains

Author(s): Hicks, C.; Hines, S.A.; Harvey, D.; McLeay, F.J.; Christensen, K.

Conference Title: Simulation: Past, Present and Future. 12th European Simulation Multiconference 1998. ESM'98. As Part of the 50th Anniversary Celebrations of the University of Manchester the Home of Computing p. 609-13

Editor(s): Zobel, R.; Moeller, D.

Publication Date: 1998 Country of Publication: USA 894 pp. ISBN: 1 56555 148 6 Material Identity Number: XX-2000-01990

Abstract: Describes a generic simulation model that is capable of representing a supply chain from raw material producers through to the consumers , with products flowing up the chain and money flowing downwards. Each level of the chain may have many competitors that may have relationships with multiple customers and suppliers . The provides a framework for defining the behaviour of producers in terms of range that they supply, their pricing product strategy and production volumes. Customer purchasing decisions are represented by rules that determine the sources of supply and order quantities. These rules use information that may be based upon purchasers , suppliers and attributes. The modelrepresents companies inter-relationships as networks of autonomous intelligent agents. The program is implemented in Java. A case study in the meat industry is provided. (5 Refs)

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12/5/27 (Item 5 from file: 2)

DIALOG(R) File 2: INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6561766 INSPEC Abstract Number: C2000-05-7400-029

Title: WWW-based collaborative system for integrated design and manufacturing

Author(s): Hain-Chi Chang; Wen F. Lu; Xiaoqing Frank Liu

Journal: Concurrent Engineering: Research and Applications vol.7, no.4 p.319-34

Publication Date: Dec. 1999 Country of Publication: USA

CODEN: CRAPEM ISSN: 1063-293X

today's Abstract: In competitive business environment, product development is the result of a team effort involving a multi-disciplinary of designers, manufacturers , even supplier and representatives. Effective collaboration among various groups is important for reducing cost and product development time. Hence, the aim of our study is to develop a **WWW** -based collaborative system for integrated design and manufacturing . The proposed system is composed of three modules-collaboration, design, and manufacturing . The paper focuses on its collaboration module and the design module. The collaboration module is -based platform-independent and provides a virtual collaborative environment for a part designer to perform online communication with customers and manufacturers via the Internet . All participants in the collaborative environment can view, and manipulate the solid model of the design part as well as discuss their concerns online interactively. The design module utilizes the design by features approach to construct a part. Traditional design by features systems restrict the designer to a fixed set of predefined features provided by the system vendor. The proposed design module includes an extension mechanism for designers to create user-defined features and an evaluation mechanism for designers to perform

manufacturability evaluation. The design module is able to generate a very complicated user-defined feature and to provide feedback concerning potential manufacturing problems in the early design stage. Both proposed modules have been implemented on a Sun workstation using the ACIS geometric modeler, C++, and JAVA. (32 Refs)

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12/5/33 (Item 11 from file: 2)

DIALOG(R) File 2: INSPEC

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5483006 INSPEC Abstract Number: C9703-1290F-022

Title: Quantifying the relative improvements of redesign strategies in a PC supply chain

Author(s): Berry, D.; Naim, M.M.

Journal: International Journal of Production Economics Conference Title: Int. J. Prod. Econ. (Netherlands) vol.46-47 p.181-96

Publication Date: Dec. 1996 Country of Publication: Netherlands

CODEN: IJPEE6 ISSN: 0925-5273

Abstract: The paper outlines the development of simulation models that describe the dynamic implications of various supply chain redesign strategies adopted by a major European manufacturer of personal computers (PCs). The strategies adopted in the real world supply chain, and replicated in the simulation models, are the introduction of the just-in-time philosophy in manufacturing plants, the development of a global materials planning system that attains visibility of total supply chain stock, a strategic supplier sourcing policy and the by-passing of the distribution network so as to directly interface with the customer.

Simulation results suggest that dynamic performance improvements (which

Simulation results suggest that dynamic performance improvements (which have an impact on customer service level achievement, stock holding requirements and production on-costs) were achieved by each consecutive redesign strategy. The paper concludes that the simulations are useful in educating and informing supply chain designers in other supply chains of the relative dynamic benefits of different supply chain redesign strategies. (18 Refs)

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12/5/35 (Item 13 from file: 2)

DIALOG(R) File 2: INSPEC

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5235912 INSPEC Abstract Number: B9605-0140-027

Title: High-mix/low-volume production: An EMS perspective [Electronic manufacturing services]

Author(s): Bieck, L.F., Jr.

Journal: Circuits Assembly vol.7, no.1 p.32-4

Publication Date: Jan. 1996 Country of Publication: USA

CODEN: CIATE5 ISSN: 1054-0407

Abstract: As the benefits of **electronic** manufacturing services (EMS) have become better understood and accepted, more OEMs in mainstream industries are looking for opportunities to join the outsourcing revolution. Typically, these OEMs do not compete in mass markets, such as PCs and consumer **electronics**, where high volume **manufacturing**, short product life cycles and fast time-to-market are absolutely crucial. Rather, they are characterized by a high mix of relatively low-volume products with

longer life cycles (up to 10 years or more). They also tend to have a large number of different product models in current production, in addition and individual transactions. Under these customers to handling many production , scheduling and conditions, the management of inventory, quality control can be both complex and difficult. Furthermore, due to low volumes, these OEMs often lack the purchasing clout needed to pressure suppliers for improved costs and component availability. They therefore tend to require substantial investments in inventory, procurement and materials management personnel. As a consequence, high-mix/low-volume OEMs are faced with a two-fold dilemma. The potential for higher levels of efficiency from outsourcing provides a great incentive to enter into partnerships but with EMS providers, because they lack economies-of-scale of high-volume OEMs, it can be difficult for them to attract EMS providers who can effectively manage their outsourcing needs while also reducing total acquisition cost. (1 Refs) Copyright 1996, IEE

12/5/53 (Item 1 from file: 99)

DIALOG(R) File 99: Wilson Appl. Sci & Tech Abs (c) 2003 The HW Wilson Co. All rts. reserv.

1402692 H.W. WILSON RECORD NUMBER: BAST96042840 Internet expands global competition

McKenna, James T;

Aviation Week & Space Technology v. 145 (July 8 '96) p. 57

ABSTRACT: Analysts and industry leaders believe that increasing use of Internet technologies for design development, parts selection, and customer support promises to heighten competition among aerospace contractors and put that competition on a truly global scale.

Manufacturers are accessing the Internet to communicate with employees around the world, review available technical information for development projects, and distribute time-critical data. Electronic links mean that suppliers can eventually post specifications and models of their products to the Internet for retrieval and evaluation by potential customers across the globe. Moreover, the Internet 's dependence on a distributed global network of computers using existing phone lines for communications minimizes the expense to a company in creating its own Internet -like internal network, or "intranet.".

12/5/61 (Item 6 from file: 256)

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods. (c) 2003 Info.Sources Inc. All rts. reserv.

TITLE: Linking The Supply Chain With The Cash Register

AUTHOR: Frook, John Evan

SOURCE: InternetWeek, v709 pS7(3) Apr 6, 1998

ISSN: 0746-8121

Web -based supply chains give businesses a way to minimize the cost of selling, by creating an automated link between customer and supplier. Systems can also be created to forecast production needs based on actual market conditions. Some corporations are moving towards handling planning, production, and scheduling completely on an intranet. This model, known as the Web value chain, integrates systems that link both inbound and

outbound logistics, operations, marketing, sales, and service to an automated system for order entry, fulfillment, and supplier feedback. This type of supply chain incorporates real-time feedback and has rapidly become a tool that gives a competitive advantage to its user. With a Web value chain, manufacturing and selling data can interact in real time, and suppliers no longer have to rely on incorrect and out-of-date forecasting data. The Web value chain shifts the focus from back-office systems to a broader space beyond the corporate boundary. It often requires changes in business processes that control the supply chain. This new model encompasses both the demand chain and supply chain, which when joined together, encompasses all aspects of a business.

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File 475: Wall Street Journal Abs 1973-2003/Jun 16
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File 99: Wilson Appl. Sci & Tech Abs 1983-2003/May
         (c) 2003 The HW Wilson Co.
File 256:SoftBase:Reviews, Companies&Prods. 82-2003/May
         (c) 2003 Info. Sources Inc
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BILLIO

15/3,K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02025272 54054053

E-retail: Gold rush or fool's gold? Rosen, Kenneth T; Howard, Amanda L

California Management Review v42n3 PP: 72-100 Spring 2000

ISSN: 0008-1256 JRNL CODE: CMR

WORD COUNT: 10088

...ABSTRACT: constraints, e-retail will continue to present a relatively minor risk to experience-oriented and non - commodity physical retailers...TEXT: com is an example of a Webbased apparel firm betting that it will.

Entertainment and **Electronics** -The e-format advantages are: the in-store entertainment and **electronics** experience is generally unpleasant; opportunities exist for entertainment system customization; entertainment and **electronics** items are fairly standardized (although, systems differ in quality, sound, speed, and other characteristics); entertainment and **electronics** products are **price** sensitive, which is particularly important in terms of potential for a **manufacturer** -to- **consumer online model**; and **electronics** products often require features and options research prior to purchase, a practice facilitated by the **Web**. The e-format disadvantages are: tactility and sensory interaction is particularly important for entertainment and **electronics** systems; the sector is low margin (gross margins average in the low 20% range); systems

... be weighty and therefore expensive to ship; immediate gratification can be important with a high- priced system. Buy.com, SOO.com, Cyberian Outpost, Netmarket, and Onsale are examples of electronics and entertainment online retailers. Best Buy, Circuit City, and Radio Shack became e-retail enabled during the second half...

15/3,K/14 (Item 14 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00206073 83-17634

Request-for-Proposal: A Professional Approach to Buying a Business System

Benson, Terry

Interface Age v8n5 PP: 54-59, 146-149 May 1983

ISSN: 0147-2992 JRNL CODE: INA

...ABSTRACT: maintenance. The RFP format illustrated tries to supply as much data as possible to the **vendor** so that choosing a system will be easier for the **purchaser**. Since the **vendor** usually is not the **manufacturer**, the equipment configuration section asks for the **manufacturer** and **model** of the suggested **computer**. The initial purchase should include a hard disk system, since most businesses rapidly outgrow a...

15/3,K/27 (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

SUPPLIER NUMBER: 00657060 01143018

Vendors Must Deliver on Their Automation Promise.

Kerr, John

Electronic Business, v11, n22, p174

Nov. 15, 1985 DOCUMENT TYPE: column ISSN: 0163-6197

LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

...ABSTRACT: automation whether it means better information systems throughout an operation, or control systems, robots, and **simulation** software. **Vendors** must build the **customer** 's confidence in **computer** -integrated manufacturing (CIM) by selling their products as solutions. Suppliers should underwrite college curricula for advanced manufacturing engineering as well. General Motor's Manufacturing Automation...

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      1960381
             MERCHANT? ? OR TRADER? ? OR BROKER? ? OR SUPPLIER? ?
S3
      2927763
                BUYER? ? OR PURCHASER? ? OR CONSUMER? ? OR CUSTOMER? ?
S4
      4778872
                COST? ? OR PRIC??? OR RATE? ? OR FEE OR FEES OR EXPENSE? ?
Ś5
      3230380
                PRODUCE? OR PRODUCTION? OR MANUFACTUR?
S6
       993237
                MODEL? OR SIMULAT?
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                S14 OR S12
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File 15:ABI/Inform(R) 1971-2003/Jun 17
         (c) 2003 ProQuest Info&Learning
       9:Business & Industry(R) Jul/1994-2003/Jun 17
File
         (c) 2003 Resp. DB Svcs.
File 610: Business Wire 1999-2003/Jun 18
         (c) 2003 Business Wire.
File 810: Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 275: Gale Group Computer DB(TM) 1983-2003/Jun 18
         (c) 2003 The Gale Group
File 476: Financial Times Fulltext 1982-2003/Jun 18
         (c) 2003 Financial Times Ltd
File 624:McGraw-Hill Publications 1985-2003/Jun 17
         (c) 2003 McGraw-Hill Co. Inc
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(Item 2 from file: 636) 10/3,K/24

DIALOG(R) File 636: Gale Group Newsletter DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

Supplier Number: 48389632 (USE FORMAT 7 FOR FULLTEXT) OFTWARE AND INFORMATION SERVICES: American Companies in Japan: Japan-U.S. Business Report, v1998, n342, pN/A March 31, 1998

Infospace's scalable, multithreaded Java server also allows firms to give secure data access to customers and suppliers via the Internet . Mitsui is Infospace's primary backer.

Hoping to make feasible on-line transactions for amounts...optimize their production software. Built into the products is an expert system that ' automates visualization, simulation and analysis of manufacturing processes. Distributor CRC RESEARCH INSTITUTE, INC. has priced iSIGHT from \$63,500. It is projecting first-year sales of 50 copies.

10/3,K/32 (Item 10 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2003 The Gale Group. All rts. reserv.

Supplier Number: 45025470 (USE FORMAT 7 FOR FULLTEXT) AMERICAN SOFTWARE PUSHES SUPPLY CHAIN MANAGEMENT IN ATTEMPT TO STOP ITS SLIDE FROM TOP 50 COMPANIES

Computergram International, n2512, pN/A Sept 30, 1994

(USE FORMAT 7 FOR FULLTEXT) TEXT:

Eight months...

...of textile manufacturer Milliken & Co, has created such spin-off practices as Just In Time, Vendor Managed Inventory, Efficient Consumer Response, Continuous Replenishment Programmes and Electronic Commerce. Up until now American Software has supplied Supply Chain Management programmes on mainframe, AS...

and Shop Floor Control. It has also recently developed a set of applications called Flow Manufacturing with mixed- model flow line design, rate -based planning, and Total Quality Control capabilities to integrate Finished Goods Planning with Just-In...

(Item 1 from file: 16) 13/3,K/1

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

07134899 Supplier Number: 60044063 (USE FORMAT 7 FOR FULLTEXT) Power Shift.

Best's Review, v100, n9, p7

Jan, 2000

Language: English Record Type: Fulltext

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Customer Management: Deregulation and the rise of the Internet have passed control of the transaction from the financial-service provider to the customer.

Two powerful converging forces--financial-services deregulation and the Internet --are profoundly affecting how property/casualty insurers distribute their products. These forces will reshape insurers' traditional business models, particularly in the overcrowded personal-lines and small-commercial segments. Pricing transparency will lead to tighter margins, expose undifferentiated insurers and accelerate consolidation.

At no time in history has one delivery system—the Internet —been able to access so many customers across state and country boundaries. The financial—services industry is poised for explosive growth facilitated by online commerce, with nearly one—third of Internet users already using electronic checking and nearly 60% of Internet households using the Web to research stocks, bonds and mutual funds.

Over the next five years, virtually all leading...

...their branding and trust will determine their future success against nontraditional competitors such as America Online and Yahoo.

The Internet is uncoupling product manufacturing from distribution. Soon a consumer may no longer need to buy an insurance policy from an insurance company. The most popular area on America Online is its finance section. To date, consumers still are more likely to buy insurance products from financial institutions than from technology companies; but that will change as sites such as America Online and Yahoo increase customer satisfaction, confidence and trust.

In response, many insurers are creating or reinvigorating brands and logos...

...be customized, corporations and business owners will depend even more on their independent agent or **broker** for risk-management services and determining appropriate insurance coverage.

Online delivery systems are not yet suited to selling specialized products in situations where buying decisions are based on more than **price**. Commercial-lines products are generally regarded as **noncommodity** and less **price** -sensitive.

Instead of positioning their **online** efforts as building another distinct channel commercial insurers such as Reliance and Atlantic Mutual are partnering with agents on the **Web**. These insurers allow **customers** to purchase competitively **priced** commercial policies **online** using a private **network** to refer business to its partner agents. Using a virtual private **network** --known as an Intranet--all parties benefit from access to shared resources, greater efficiency and...

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      6816238
             OR COMPUTER? OR WEB OR WWW) NOT PY>2000
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      4094573
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             OT PY>2000
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File 636: Gale Group Newsletter DB(TM) 1987-2003/Jun 16
         (c) 2003 The Gale Group
File 613:PR Newswire 1999-2003/Jun 18
         (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 16:Gale Group PROMT(R) 1990-2003/Jun 18
         (c) 2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 634:San Jose Mercury Jun 1985-2003/Jun 17
         (c) 2003 San Jose Mercury News
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FTN/2 (2of 2)

10/3,K/1 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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12108967 SUPPLIER NUMBER: 59282628 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Market Orientation and Other Potential Influences on Performance in Small

and Medium-Sized Manufacturing Firms.

Pelham, Alfred M.

Journal of Small Business Management, 38, 1, 48

Jan, 2000

ISSN: 0047-2778 LANGUAGE: English RECORD TYPE: Fulltext

TEXT:

...with measures of performance. The most influential market orientation elements are fast response to negative **customer** satisfaction information, strategies based on creating value for **customers**, immediate response to competitive challenges, and fast detection of changes in **customer** product preferences. Results also indicate the crucial role of market orientation in implementing an emphasis on a growth/differentiation strategy, compared to a low **cost** strategy. The strength of the market orientation-performance and strategy-performance relationships are stronger under...

...are firms who manage to be successful without embracing this concept by emphasizing technical or **production** capabilities. Webster's (1981) survey of CEOs of large industrial firms indicated a dominant technology culture, resulting in a predominant **production** orientation geared toward internal efficiency. With a **production** orientation, the charge to the marketing and sales functions is to push current products, often with **price** incentives, to maximize plant capacity.

Many firms rode strong product and technology focuses to high...

...product success, and profitability. Pelham's study (1997b), with a different data base of small manufacturing firms, produced similar results. This study also indicated that the customer satisfaction dimension of market orientation may be more important than the customer understanding or competitive orientation dimensions of market orientation. These results, while interesting to academics, are structured within path-analysis and structural equation models which makes them less understandable to small business managers.

In contrast, this study utilizes simple...

10/3,K/10 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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11179933 SUPPLIER NUMBER: 55135525 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Business-to-Business Selling on the Internet: Keys to Success, According to Sibson & Company.

PR Newswire, 0138 July 13, 1999

TEXT:

 \dots 13 /PRNewswire/ -- "Faced with an ever-growing list of questions about how to leverage the <code>Internet</code>, many managers are increasingly reluctant, or at the very least perplexed, about how to sell over the

Internet ," says Tom Knight, principal at Sibson & Company, global
management consulting firm. He added, "This is particularly true in
commercial businesses where many managers believe that selling over the
Web is for consumer products or commercial products that have become
commodities."

...once knew when they shipped by the freight car.

7. How should we think about **pricing** our products? The challenge of **pricing** for e-channels is complex and ongoing. Comparison-shopping

is

easier over the **Web**, particularly for **non - commodity** products. Managers must first decide whether discounts are warranted on certain products within certain segments. Then they must go to work creating a **price** monitoring and **modeling** system that frequently reviews

the

as

competitiveness of their $\ensuremath{\, {\bf prices} \,}$ and the profitability of products,

well as customers .

8. What decision support tools and information are required to manage selling over e-channels? With the added complexities of regular customer re-segmentation, pricing modifications, and leveraging

free

time created by new sales roles, a variety of information and...

10/3,K/16 (Item 16 from file: 148)
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10455237 SUPPLIER NUMBER: 21120633 (USE FORMAT 7 OR 9 FOR FULL TEXT)

IT Makes Commodities Hot -- Commodities Producers Are Relying On IT To

Improve Service, Develop Loyalty-And Pump Up Profits. (Industry Trend or

Event)

Caldwell, Bruce; Thyfault, Mary E.

InformationWeek, n699, p48(1)

Sept 7, 1998

ISSN: 8750-6874 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

ABSTRACT: Vendors of commodity products are turning to IT to promote customer loyalty and brand awareness as well as improve profits. Some companies are employing electronic data interchange technologies to simplify and speed up the customer ordering process. Other organizations are using object-oriented information systems to offer Web -based energy-usage modeling and simulation tools that help their customers improve their cost management practices. Telecommunications service providers are turning to IT technology to help them as they...

TEXT:

... some businesses, such as wood and paper, leveraging IT may mean little more than introducing **electronic** data interchange to simplify and speed up **customer** orders. In other areas, such as electricity and gas, it involves the development of object-oriented information systems to deliver sophisticated energy-usage **modeling** and **simulation** tools over the **Web** to help business **customers** better manage their **costs**.

In today's marketplace, companies must differentiate themselves in two key ways, says business process...

...easy to do business with, he says, because "if you are adaptive and responsive, then **customer costs** go down even if you don't lower **prices** ." And companies must add value through services, such as inventory management.

No commodities companies rely...

...No separate power lines from the various sources are connected to the homes of those **customers**. Instead, with an **electronic** switch, PG&E Energy Services simply takes over servicing the account, then uses layers of IT to schedule, meter, and manage the electricity. **Customer** demand dictates what percentage of the total electricity "pool" is derived from the "clean" sources. **Customers** are then charged a few dollars more in their monthly utility bill for their decision to buy environmentally friendly electricity.

For large commercial and industrial **customers**, PG&E Energy Services has a three-phase IT development program to deliver improved **Web** -based services for managing electricity usage. The first phase, which was made available in July, provides historical power usage data to **customers**. The second phase, available later this year, will add weather data and facility-management capabilities. The third phase, which may bear a subscription **fee** and is slated to be delivered early next year, introduces **modeling** and **simulation** tools using real-time data on the **Web** site for **customers** to use in forecasting energy consumption. The site will offer advice on how to cut consumption, letting **customers** manage their bills-PG&E might advise them to run energy-consuming industrial processes during...

10/3,K/34 (Item 34 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

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07199441 SUPPLIER NUMBER: 15199930 (USE FORMAT 7 OR 9 FOR FULL TEXT) Cost -of-ownership issues in a flexible manufacturing environment.

(Special Report - Fab of the Future, part 2) (Cover Story)

Doering, Robert R.

Solid State Technology, v37, n2, p39(4)

Feb, 1994

DOCUMENT TYPE: Cover Story ISSN: 0038-111X LANGUAGE: ENGLISH

TEXT:

Cost -of-ownership (COO) analysis has started to gain acceptance in the semiconductor industry as a tool for evaluating potential cost and benefit tradeoffs of purchased equipment. However, use of the technique has so far been optimized for traditional high-volume wafer fabs. Furthermore, standard COO analysis models are usually applied to a single process step (i.e., to alternatives for one piece of equipment). This article examines the impact of flexible manufacturing on analyses that use current COO models. Also, the author explores possible extensions of COO analysis to better address costs and benefits in a flexible manufacturing environment, which allows fast cycle times and extensive equipment reuse and includes powerful computer -integrated manufacturing capabilities.

Most current **cost** -of-ownership (COO) analysis in the semiconductor industry is based on the SEMATECH COO **model**, which has been steadily evolving since its introduction in the late 1980s as a component of a total productivity **model**. More recently, SEMI chartered a subcommittee with the task of exploring the growing role of...

...analysis in the semiconductor industry. A recent article reviewed industry progress and acceptance of COO modeling |1

In this article, we explore the potential impact of flexible manufacturing (such as that developed by Texas Instruments |TI

in the Microelectronics Manufacturing Science and Technology |MMST program) on analyses using current COO models. Also, we look at possible extensions to future models for semiconductor-industry COO, which may better address flexibility-related costs and benefits.

Limitations of the COO model

Basically, the current COO model attempts to resolve the various tradeoffs in semiconductor equipment evaluation in terms of an overall cost -per-good-wafer for a particular manufacturing step. There is an implicit assumption in the current model that each wafer is to be processed with the same recipe every time for a specific processing step. Thus, no costs are included to reflect new setups required in flexible manufacturing scenarios. Also, there is no accounting for certain less tangible aspects of equipment capability, such as computer -integrated manufacturing (CIM) connectivity (e.g., SECS-II compatibility).

Of course, the significance of items such as...

...open-loop statistical process control. In general, in situ sensors add directly to the capital **cost** of the tool. But that will not always be the case. Ultimately, real-time process control will provide a lower **cost** alternative to "brute-force" approaches -- especially with the increasingly tight process specifications required for device scaling and larger wafers.

Real-time process control already provides **production** economies in more-mature industries, such as paper **manufacturing**. Until semiconductor **manufacturing** (or, at least, some of its tools) reaches that level of maturity, the **costs** of new in situ sensors will need to be evaluated mainly against **costs** associated with the replaced off-line metrology. Such analysis could be performed within a COO **model** extended to include the process-control **costs** associated with each process step. Accounting for opportunity **costs**

Opportunity- cost analysis is very important in a flexible manufacturing business scenario, but will probably be fairly difficult to incorporate within a tool-level COO...

10/3,K/37 (Item 37 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05506163 SUPPLIER NUMBER: 11427456 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Hecla Mining Company centennial 1891 - 1991: Au-Ag core central to fete new mines, markets, and prospects build for 200th. (includes related
article)

Phelps, Richard W.

E-MJ - Engineering & Mining Journal, v192, n9, p19(7)

Sept, 1991

ISSN: 0095-8948 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

...base-metals, and an "old fashioned" interest in employees, with the ability to enter other non - commodity mineral markets that are customer -driven. While annual Ag production is important, at 5 million oz, the 150,000 oz Au and 750,000 st...

...1/2-9 weeks development-to-exhaustion of a typical stope. On average, ore is **produced** over about 6 weeks. The reduced number of, and relative areal concentration of stopes--compared to former methods--increases the criticality of **production** planning.

While the LFUL method is much more productive, the concentration of **production** has, Brown said, "reduced annual silver capacity by some 50%--from a former level of...

...reaped a double benefit from the only concrete-lined shaft in the district. It improved **production** during the **price** run-up of the early 1980s as well as reduced shaft maintenance (**cost** /outages) and greatly increased hoisting capacity. Concurrently we improved the ventilation and cooling so that...

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S2
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      1488397
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                S8 NOT PD>20000424
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? show files
File 148: Gale Group Trade & Industry DB 1976-2003/Jun 17
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     47: Gale Group Magazine DB(TM) 1959-2003/Jun 13
File
         (c) 2003 The Gale group
File 635:Business Dateline(R) 1985-2003/Jun 17
         (c) 2003 ProQuest Info&Learning
File 570: Gale Group MARS(R) 1984-2003/Jun 18
         (c) 2003 The Gale Group
File 387: The Denver Post 1994-2003/Jun 17
         (c) 2003 Denver Post
File 471:New York Times Fulltext 90-Day 2003/Jun 17
         (c) 2003 The New York Times
File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06
         (c) 2002 Phoenix Newspapers
File 494:St LouisPost-Dispatch 1988-2003/Jun 16
         (c) 2003 St Louis Post-Dispatch
File 498:Detroit Free Press 1987-2003/Jun 17
         (c) 2003 Detroit Free Press Inc.
File 631:Boston Globe 1980-2003/Jun 17
         (c) 2003 Boston Globe
File 633: Phil. Inquirer 1983-2003/Jun 17
          (c) 2003 Philadelphia Newspapers Inc
File 638: Newsday/New York Newsday 1987-2003/Jun 16
         (c) 2003 Newsday Inc.
File 640:San Francisco Chronicle 1988-2003/Jun 18
          (c) 2003 Chronicle Publ. Co..
File 641: Rocky Mountain News Jun 1989-2003/Jun 17
          (c) 2003 Scripps Howard News
File 702:Miami Herald 1983-2003/Jun 17
          (c) 2003 The Miami Herald Publishing Co.
File 703:USA Today 1989-2003/Jun 17
          (c) 2003 USA Today
File 704: (Portland) The Oregonian 1989-2003/Jun 16
          (c) 2003 The Oregonian
File 713:Atlanta J/Const. 1989-2003/Jun 15
          (c) 2003 Atlanta Newspapers
File 714: (Baltimore) The Sun 1990-2003/Jun 17
          (c) 2003 Baltimore Sun
File 715: Christian Sci. Mon. 1989-2003/Jun 18
          (c) 2003 Christian Science Monitor
File 725: (Cleveland) Plain Dealer Aug 1991-2003/Jun 17
          (c) 2003 The Plain Dealer
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File 735:St. Petersburg Times 1989- 2000/Nov 01

(c) 2000 St. Petersburg Times

File 476: Financial Times Fulltext 1982-2003/Jun 18

(c) 2003 Financial Times Ltd

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File 710: Times/Sun. Times (London) Jun 1988-2003/Jun 17

(c) 2003 Times Newspapers

File 711:Independent (London) Sep 1988-2003/Jun 17 (c) 2003 Newspaper Publ. PLC

File 756: Daily/Sunday Telegraph 2000-2003/Jun 18

(c) 2003 Telegraph Group

File 757:Mirror Publications/Independent Newspapers 2000-2003/Jun 18

(c) 2003

Compeditive Power Markets



How will evolving utility deregulation and new environmental regulations impact generation owners, coal suppliers, transportation providers and the financial community?

This new study from Resource Data International, Inc. takes an in-depth look at the all of the major changes and regulations affecting coal-fired generation in the competitive marketplace and analyzes their impacts at the plant level.

It examines the various environmental, regulatory, and structural changes impacting the industry and quantifies the future impacts on generation owners, coal suppliers, coal transporters, and financial institutions.

The data and analysis in the study are a must for: current generation owners, new market entrants, power marketers, financial concerns, and coal and transportation suppliers.

SUPPLEMENTAL DATA ON CD-ROM
Each appendix from
Coal-Fired Generation
in Competitive Power
Markets is on CD and
included with the study
free of charge. Using
search tools in Excel
and/or Word, you can
quickly find information
you need.



What's Included in the Study:

- Comparative analysis and competitive assessment of every major coal-fired power plant in the country now; and in 2003
- Detailed analysis of the major issues that will affect the value of coal-fired power plants in the future including, plant efficiency, future coal and transportation prices, and the margin between production costs and electricity prices
- Quantification of the amount and present value of above-market coal contracts
- Detailed forecast of coal volumes, quality, and prices for each plant in 2003 incorporating announced or projected environmental compliance plans
- Identification of new environmental regulation limits for SO2 and NOx and historic emissions for <u>each</u> coal-fired unit, along with projected compliance technologies and estimated costs in 2003
- Analysis of recent coal-fired asset acquisitions and the factors driving the prices paid for these assets
- Coal-fired plant sales and acquisitions are chronicled with insight on the purchase price differentials between regions

Plants Benchmarked Across Key Criteria

Above Market Coal and Rait Analysis

by Plant and Coal Source Region

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Fuel Cost Benchmarking

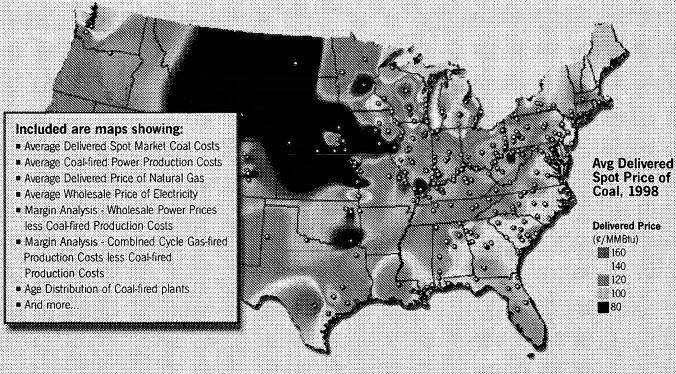
Every power plant has its estimated FOB mine prices and transportation rates benchmarked against current open market pricing. Fuel cost components for each plant are compared to industry averages to determine strengths and weaknesses in each respective area. Above-market contracts are identified, as well as those plants purchasing below average market levels.

The Challo Plant is a medium-sized coneastern Arizona. The lour units are typical
por file note: this rage heat rates, however three of the units
is a BLOW-UP FROM e of sulfur diarade removal equipment. Pash
next page
e been exceptionally high due to above mor
and rail supply agreements. The rail rate was a
sive by federal regulators in 1997 and was reduced approximately 50%. The long-term of

Evaluate & Benchmark Coal-Fired Plants

This study evaluates and benchmarks every coal-fired plant on a national and regional basis for critical cost components such as delivered fuel, power production, labor and conversion efficiency (heat rate). These costs are also forecast for the year 2003 to analyze the impacts of the upcoming changes on coal, electricity, and generating markets. The study investigates the changes in profitability of each plant now due to the pressures of deregulation and changing environmental regulation.

See Emerging Trends on Detailed Energy Industry Maps



Power Plant Competitiveness Rankings

Cholla Arizona Public Service Co. HOLDING COMPANY-OPERATING COMPANY | NERC PINNACLE WEST CAPITAL CORP. AZ PUBLIC SERV. CO | WSCC SUB-REGIONS | ST AZNMA AZ Coal Fired Generating Units Overview RDI Ruting ★★★☆☆ DEM Copodity On-Line Date Boiler Type: Fully Loaded Heat rate REGIONAL FUEL COST 502 Controls SOn Emissions Rate (The/mmhiu) SOz Emissions (Tons) Phosa II: SD: Allowonces NOx Controls NOx Rate (lbs/mmbtu) Most Stringent Proposed Rate Limit Coal Purchase Summary Non-Coal Fired Gen --Toras (000)-DEM Capacity Primary Fuel 738 3,555 2.486 2,527 Load Profile. Avg Price (c/MMBTU)--1996 1997 --Del 1994 1995 1998 1998 155 143 147 146 139 133 132 125 119 3,851 132 125 119 Raton SPRB Total Unit: 250 Unit 3 3,555 2,486 2,527 3,004 3 Receiving Capabilities Unload Time Borga-No Roll-BNSF Battom 4 hrs Plant Performance 1995 1997 Generation (MWb) 20% **48.35%** 72.03% 10,925 \$27,70 Fuel 1998 Regional Power Price Pwr Prod Cost (S/MWh) Prod Cost Quartile Ronk \$22,90 \$24.04 \$20.52 89 569 138 100 273 028 88 692 952 Fuel (S/MWH) Fuel Opartile Rank \$17.82 Non-Fuel O&M \$ Non-Fuel O&M (\$/MWh) Non-Fuel Quartile Rank Non-Fuel Quartile Rank Non-Fuel O&M (\$/XW) 6.651.143 Company, Inc. 1196 \$6.16 \$4.23 \$26.20 \$31.17 \$26.79 Energy Co. Generation (MWA)/Emp 18,360 28,045 apopty/tmp_

Summing It All Up: Impacts in 2003

The impacts of utility deregulation and new environmental regulations are quantified through a dispatch simulation for the year 2003, the first year of 22 state SIP call NOx regulations. The impacts of coal switching, new costly compliance equipment, increasingly open transmission access and the elimination of above-market fuel costs are incorporated into an economic dispatch model for the year 2003. The Inter-Regional Electric Market Model (IREMM) will determine generation volumes by unit, wholesale power prices and power production cost margins by plant. Coal volume and capacity factor analyses identify which plants could benefit from these changes as well as those that may suffer.

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the number of units, unit capaci-

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efficiencies, SO2 and NOx emission

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areas of fuel cost, conversion effi-

Finally, a short narrative details

ciency, conversion cost, and operat-

unique insights, strengths and weak-

nesses, and operating peculiarities at

ties, and heat rates are listed.

capabilities are also included.

petitive position of each plant on

110

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Profiles

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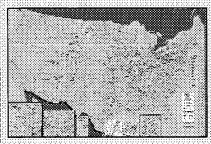
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